

Recombinant Mouse IL-1Ra/IL-1F3/IL-1RN Protein

Catalog No.: RP00666 Recombinant

Sequence Information

Species Gene ID Swiss Prot Mouse 16181 P25085

Tags

No tag

Synonyms

IL-1ra; F630041P17Rik;IL1RN

Product Information

Source Purification *E. coli* ≥ 95 % as

determined by SDS-PAGE.

FAG

Calculated MW Observed MW

17.33 kDa 15-25 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Interleukin-1 receptor antagonist protein (II1rn), also known as IL-1ra, IRAP or IL1 inhibitor, is a member of theinterleukin 1 cytokine family. This protein inhibits the activities of interleukin 1 alpha (IL1A) and interleukin 1beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. The mousell1rn gene encodes a 178 amino acids (aa) protein with a 26 aa signal peptide. Mouse II1rn protein shares 26%and 19% identity with its homologues IL-1 beta and IL-1 alpha, respectively. II1rn can Inhibits the activity ofinterleukin-1 by binding to receptor IL1R1 and preventing its association with the coreceptor IL1RAP forsignaling, but has no interleukin-1 like activity. Recently, an recombinant human II1rn protein is used in thetreatment of rheumatoid arthritis, an autoimmune disease in which IL-1 plays a key role.

Basic Information

Description

Recombinant Mouse IL-1Ra/IL-1F3/IL-1RN Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Arg27-Gln178) of mouse IL-1Ra/IL-1F3/IL-1RN (Accession #P25085) fused with an initial Met at the N-terminus.

Bio-Activity

Measured by its ability to inhibit IL-1 alpha-dependent proliferation in D10.G4.1 mouse helper T cells. The ED $_{50}$ for this effect is 2.47-9.86 ng/mL in the presence of 3ng/mL of recombinant human IL-1 alpha(Catalog: RP00098), corresponding to a specific activity of $1.01 \times 10^5 \sim 4.05 \times 10^5$ units/mg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

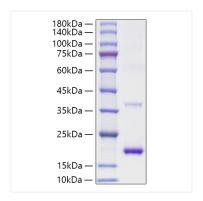
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

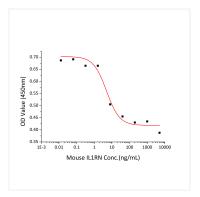
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Mouse IL-1Ra/IL-1F3/IL-1RN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Mouse IL-1Ra/IL-1F3/IL-1RN inhibit IL-1 alpha-dependent proliferation in D10.G4.1 mouse helper T cells. The ED $_{50}$ for this effect is 2.47-9.86 ng/mL in the presence of 3ng/mL of recombinant human IL-1 alpha(Catalog: RP00098), corresponding to a specific activity of $1.01\times10^5\sim4.05\times10^5$ units/mg.